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		ARD COMPANY	CHEN, TSE W			
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION				ART UNIT	PAPER NUMBER	
FORT COL	LINS, CO	80527-2400	2116			
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Please find below and/or attached an Office communication concerning this application or proceeding.

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·/	Application No.	Applicant(s)					
Office Action Summary	09/965,998	CEPULIS ET AL.					
· Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication app	Tse Chen	2116					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. [In the period for exply passified depends after the betty formula to the provision of the provision of the period formula to the provision of the period for the period for the period of the polyment of the period for the period of the							
 If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 							
Status							
 Responsive to communication(s) filed on <u>27 July 2005</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 							
Disposition of Claims							
 4) Claim(s) 2,3,7,8,17,18,23 and 24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2,3,7,8,17,18,23 and 24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	•	·					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:						

DETAILED ACTION

It is hereby acknowledged that the following papers have been received and placed of record in the file: Amendment dated July 27, 2005.

Claims 2-3, 7-8, 17-18, and 23-24 are presented for examination. Applicant has canceled claims 1, 4-6, 9-16, 19-22, and 25-29.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2, 7, 17, 23-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. In the Remarks/Arguments dated July 27, 2005, Applicant stipulates on page 13, that "to the extent a claim recites 'a computer system comprising ... a display device', it is Applicants' intention that a display device is required". Claims 2, 7, 17, 23-24 do not recite "comprising ... a display device"; therefore, claims 2, 7, 17, 23-24 refer to embodiments that do not require a display device. However, Applicant fails to disclose how to "show[ing] only the operating system drivers operable with the operating system to be installed as files stored on the virtual disk drive by the BIOS routines" without a display device. It would be obvious to one with ordinary skill in the art to show only certain files on a display device, but myriads of questions inevitably arises when it is required to "show" only certain files without a display device. For instance, what interface between what

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entities would support a "showing" of particular files, would the particular files have to reside in specific directories or in one common directory wherein the particular files would have tags associated with them in order to "show" them and how would these tags be accessed and managed in a virtual environment? The Examiner submits that it would require undue experimentation for one of ordinary skill in the art to make and use the invention for the reason set forth hereinabove. In the interest of compact prosecution, Examiner will assume that "showing only the operating system drivers operable with the operating system to be installed as files stored on the virtual disk drive by the BIOS routines" pertains to accessing only the operating system drivers operable with the operating system to be installed as files stored on the virtual disk drive by the BIOS routines.

Findings

- 1. Madden et al., U.S. Patent 6178503, hereinafter Madden, discloses a method of providing operating system drivers [other files] during an operating system installation on a computer system [abstract; col.8, ll.54-59].
- 2. Madden discloses the method comprising storing a first set of operating system drivers [other files] operable with a first operating system [OS C 110] in a read only memory (ROM) [permanent storage 124; col.5, ll.63-66] of the computer system [col.8, ll.47-59; drivers needed for operating system to run are depicted in col.11, l.18 col.17, l.5].
- 3. Madden discloses the method comprising storing a second set of operating system drivers operable with a second operating system [OS D 112] in the ROM [col.8, ll.47-59; drivers needed for operating system to run are depicted in col.11, l.18 col.17, l.5].

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- 4. Madden discloses the method comprising having only operating system drivers operable with the operating system to be installed available for copying [col.8, ll.54-59; only operating system drivers operable with the operating system to be installed will be accessible in the directory as operating system drivers operable with other operating systems are not copied].
- 5. Madden discloses the method comprising storing a first floppy image having a first set of operating system drivers operable with a first operating system [OS C 110] [col.8, ll.47-59; the image comprising all the files and structural information depicted in col.11, l.18—col.17, l.5], the first floppy image stored in a read only memory (ROM) [permanent storage 124; col.5, ll.63-66] of the computer system.
- 6. Madden discloses the method comprising storing a second floppy image having a second set of operating system drivers operable with a second operating system [OS D 112] [col.8, II.47-59, the image comprising all the files and structural information depicted in col.11, I.18—col.17, I.5], the second floppy image stored in the ROM [permanent storage 124; col.5, II.63-66].
- 7. Madden discloses the method comprising providing one of the first and second floppy images during the operating system installation [col.8, 11.54-59].
- 8. Madden discloses the advantage of multiple operating systems is to utilize programs or files that operate under a previous operating system version [col.9, ll.15-26].
- 9. Agnihotri et al., US 6763456, hereinafter Agnihotri, discloses a method comprising showing the contents residing on a memory [nvram] by a BIOS routine [col.8, Il.29-38; it is well known in the art to show contents that are files where files represent drivers].

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10. Agnihotri discloses a computer system wherein the BIOS programs show the contents that reside in the random access memory [nvram] area of an address space [col.8, ll.29-38].

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- 11. Agnihotri discloses the advantage of showing the contents of a memory is the facilitation of error handling in emergency situations [col.8, ll.29-55].
- 12. Alcorn et al., U.S. Patent 6106396, hereinafter Alcorn, discloses a method of providing operating system drivers during an operating system installation on a computer system [fig.1; electronic casino gaming system; col.6, ll.14-29] [col.6, ll.24-29; operating system drivers are required in order for operating systems to operate adequately].
- 13. Alcorn discloses the method comprising storing the operating system drivers on a read only memory (ROM) [14, 50 and 52] within the computer system, the operating system residing on the ROM as files [col.9, ll.38-44; it is well known in the art that entities such as data, applications and drivers are stored as files for access].
- 14. Alcorn discloses the method comprising copying at least one of the operating system drivers from a drive [52] of the computer system during the operating system installation by invoking basic input output system (BIOS) routines [col.9, 11.49-56].
- 15. Alcorn discloses a read only memory (ROM) device [14].
- 16. Alcorn discloses the ROM device comprising a basic input output system (BIOS) program [col.9, 38-44].
- 17. Alcorn discloses the ROM device comprising a set of hardware drivers [col.9, 38-44].

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- 18. Alcorn discloses the BIOS program that is adapted to, when executed by a microprocessor [12], make the set of hardware drivers available for copying during installation of an operating system [col.9, ll.49-56].
- 19. Alcorn discloses a computer system [fig. 1].
- 20. Alcorn discloses a computer system comprising a CPU [12].
- 21. Alcorn discloses a computer system comprising an expansion bus [27] coupled to the CPU.
- 22. Alcorn discloses a computer system comprising a ROM [14] coupled to the expansion bus, wherein the ROM stores BIOS programs.
- 23. Alcorn discloses the advantage of authenticating a computer system is the assurance of system integrity [col.5, ll.43-57].
- 24. Wu discloses a method comprising copying at least one of the operating system drivers from a virtual disk drive [virtual option rom] of the computer system during the operating system installation [col.4, ll.12-51; operating system drivers are needed to operate device].
- 25. Wu discloses the method of copying at least one of the operating system drivers from a virtual disk drive by invoking basic input output system (BIOS) routines [col.4, ll.12-51].
- 26. Wu discloses the method of copying at least one of the operating system drivers from a virtual disk drive by accessing the operating system drivers residing on a ROM as files stored on the virtual disk drive by the BIOS routines [col.4, ll.12-51, virtual option rom is built with drivers needed to operate device].

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27. Wu discloses a BIOS program that makes the set of hardware drivers [drivers needed to operate devices] available for copying during installation of an operating system by providing the hardware drivers on a virtual disk drive [virtual option ROM] [col.4, ll.12-51].

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- 28. Wu discloses a computer system [fig.1] wherein the BIOS programs of the ROM accesses a virtual floppy drive [virtual option rom] whose contents reside in a memory area of the virtual address space [col.4, ll.12-51; contents of virtual drives are stored in virtual address space to facilitate access as if actual drive exists].
- 29. Wu discloses a computer system [fig.1] wherein the BIOS programs of the ROM accesses a virtual floppy drive [virtual option rom] whose contents reside in the ROM area of the virtual address space [col.4, ll.12-51, contents of virtual drives are stored in virtual address space to facilitate access as if actual drive exists].
- 30. Wu discloses the advantage of accessing a virtual ROM is the flexibility gained in the booting process [col.2, ll.50-57].
- 31. Puckette, U.S. Patent 6385721, discloses a method comprising requesting disk services to a disk drive [mass storage device 30] by invoking interrupt 13h BIOS services directed to the disk drive [col.9, ll.37-40].
- 32. Puckette discloses a method comprising returning a file name for at least one of the operating system drivers by the interrupt 13h BIOS routines as if the operating system drivers resided on the disk drive [col.9, ll.37-40; reading boot record enables the reading of files].

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33. Puckette discloses the advantage of Puckette's teaching is the facilitation of determining whether a disk drive can be accessed [col.9, 11.35-45].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 7, 17-18, 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alcorn in view of Wu, Madden and Agnihotri.

In re claims 2 and 7, Alcorn discloses each and every limitation of the claim as set forth in findings 12-14. Alcorn did not discuss a virtual drive or the use of BIOS routines to show contents of a memory. Wu teaches a method comprising copying at least one of the operating system drivers from a virtual disk drive of the computer system during the operating system installation [findings 24-26] in order to increase flexibility in the booting process [finding 30]. Madden teaches a method comprising storing on the ROM two sets of operating system drivers and having only operating system drivers operable with the operating system to be installed available for copying [findings 1-4] in order to utilize programs or files that operate under a previous operating system version [finding 8]. Agnihotri teaches a method comprising showing the contents residing on a memory by a BIOS routine [finding 9] in order to facilitate error handling in emergency situations [finding 11]. It would have been obvious to one of ordinary skill in the art, having the teachings of Alcorn, Wu, Madden and Agnihotri before him at the time the invention was made, to modify the system taught by Alcorn to include the teachings of Wu,

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Madden and Agnihotri, in order to obtain the method comprising copying at least one of the operating system drivers from a virtual disk drive of the computer system during the operating system installation by invoking BIOS routines, showing the operating system drivers residing on the ROM as files stored on the virtual disk drive by the BIOS routines, and having only operating system drivers operable with the operating system to be installed available for copying from the virtual disk drive by showing only the operating system drivers operable with the operating system to be installed as files stored on the virtual disk drive by the BIOS routines. One of ordinary skill in the art would have been motivated to make such a combination as it provides a way to increase flexibility in booting according to different operating system version as required and facilitate error handling in emergency situations.

In re claims 17 and 18, Alcorn, Wu and Agnihotri disclose each and every limitation as discussed above in reference to claim 2 and additionally, in findings 15-18, and 27.

In re claim 23, Alcorn, Wu and Agnihotri disclose each and every limitation as discussed above in reference to claim 2 and additionally, in findings 10, 19-22, and 28. Examiner has taken Official Notice that it is well known in the art to map a virtual floppy drive whose contents reside in the RAM area of the virtual address space in order to facilitate indirect access to local or remote drives. Alcorn discloses the operating system drivers necessary to interface an operating system of the computer system with hardware [18] of the computer system [col.9, ll.38-60].

In re claim 24, Alcorn, Wu and Agnihotri disclose each and every limitation as discussed above in reference to claim 2 and additionally, in findings 19-22, and 29. Alcorn discloses the ROM [52] that contains operating system drivers necessary to interface an operating system of the computer system with hardware [18] of the computer system [col.9, Il.38-60].

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Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alcorn, Wu, Madden and Agnihotri, as applied to claims 2 and 7 above, and in further view of Puckette.

In re claims 3 and 8, Alcorn, Wu, Madden and Agnihotri disclose each and every limitation as discussed above in reference to claims 2 and 7. Alcorn, Wu, Madden and Agnihotri did not discuss the details of accessing the virtual drive. Puckette teaches a method comprising requesting disk services to a disk drive [findings 31-32] in order to determine whether a disk drive can be accessed [finding 33]. It would have been obvious to one of ordinary skill in the art, having the teachings of Puckette, Alcorn, Wu, Madden and Agnihotri before him at the time the invention was made, to modify the system taught by Alcorn, Wu, Madden and Agnihotri to include the teachings of Puckette, in order to obtain the method comprising the claimed limitations. One of ordinary skill in the art would have been motivated to make such a combination as it provides a way to determine whether a disk drive can be accessed.

Response to Arguments

Applicant's replacement drawings with respect to the objection of the previous Office

Action have been fully considered. The objection of drawings has been withdrawn.

Applicant's arguments filed July 27, 2005 have been fully considered but they are not persuasive.

Applicant alleges that "there is no disclosure in Madden of 'having only operating system drivers operable with the operating system to be installed available for copying from the virtual disk drive by showing only the operating system drivers operable with the operating system to be installed as files stored on the virtual disk drive by the BIOS routines". As noted in the rejection and conceded by Applicant in the Remarks, Madden discloses "a multiple operating system

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environment, where *files* <u>necessary</u> for running a selected operating system are copied to a location". Examiner submits that the essence of Applicant's claimed invention lies in providing only files <u>necessary</u> for running a selected operating system and that drivers are files <u>necessary</u> for running a selected operating system. If Applicant disputes this interpretation, Applicant should comply with 37 CFR 1.111(b) and specifically point out how the "drivers" language of the claim patentably distinguishes it from Madden and in effect, make the admission that "drivers" as claimed do not encompass files <u>necessary</u> for running a selected operating system. Furthermore, in light of Applicant's stipulation that "to the extent a claim recites 'a computer system comprising ... a display device', it is Applicants' intention that a display device is required", the rejections are still valid based on Alcorn accessing [showing] only the operating system drivers operable with the operating system to be installed, as provided by Madden [findings 4 and 14; during access for copying, only the operating system drivers operable with the operating system to be installed would be "shown"].

Applicant alleges that Agnihotri "discloses that when a first operating system fails to load, a second operating system is loaded that is a simplified version or subset of the first operating system... since the second operating system is a subset of the first operating system, files of the first operating system will be made available to the second operating system, which also is actually contrary to the requirements". Examiner notes Applicant's explicit limiting admission that the claimed invention excludes instances where common operating system drivers can be shared between two different operating systems and submits that Agnihotri does not teach explicitly the sharing of common operating system drivers. Agnihotri does not use the term

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"subset"; instead, Agnihotri uses the term "simplified version" which cannot be indisputably equated as a subset with inherent shared files.

All other claims were not argued separately.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tse Chen whose telephone number is (571) 272-3672. The examiner can normally be reached on Monday - Friday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tse Chen August 24, 2005

> A. ELAMIN FRIMARY EXAMINER